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APPLICATION NO.	'n	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/918,789		C7/27/2001	Jayne B. Roderick	IR-026-C1	2194	
21912	7590	03/29/2004		EXAMINER		
VAN PEL			HANNE, SARA M			
CUPERTIN		BLVD #200 5014		ART UNIT	PAPER NUMBER	
	•			2173	8	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Óffice Action Summary	09/918,789		JAYNE RODERICK, KAREN MACLEAN, VERPLANK,				
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		Sara M Hann		2173				
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4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-17 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Application		and/or election requ	in ciriciti.					
10)⊠ The Ap Re	e specification is objected to by the Exact drawing(s) filed on 27 July 2001 is/ar plicant may not request that any objection placement drawing sheet(s) including the coath or declaration is objected to by the	re: a)⊠ accepted o to the drawing(s) be h correction is required i	neld in abeyance. See if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CF				
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12) Ac a) Ac a) 7 1.[2.[3.[* See 13) Acki since 37 C a) 7 14) Acki	knowledgment is made of a claim for fall b) Some * c) None of: Certified copies of the priority docu Copies of the certified copies of the application from the International E the attached detailed Office action for nowledgment is made of a claim for does a specific reference was included in the FR 1.78. The translation of the foreign language nowledgment is made of a claim for does now large the first sentence was included in the first sentence.	uments have been reuments have been reepriority documents Bureau (PCT Rule 1 a list of the certified mestic priority under the first sentence of the provisional applications and the provisional applications.	eceived. eceived in Application s have been received 7.2(a)). d copies not received r 35 U.S.C. § 119(e) the specification or cation has been received r 35 U.S.C. §§ 120	on No ed in this National S ed. e) (to a provisional in an Application I eived. and/or 121 since a	application) Data Sheet.			
2) Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-9-00) Disclosure Statement(s) (PTO-1449) Paper N	48) 5)	Interview Summary Notice of Informal P Other:	(PTO-413) Paper No(s atent Application (PTO				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1, 5, and 8 -17 rejected under 35 U.S.C. 102(a) as being clearly anticipated by Allport, US Patent Application 2002/0135619.

As in Claims 1, 16 and 17, Allport teaches a pushbutton user interface, method and storage medium for enabling a user to preview the effect of activating a pushbutton comprising a means for sensing input (display activation) to the pushbutton that does not activate the button and in response to sensing input, displaying a preview indicating the effect of activating the pushbutton ("a first type of physical motion ... may cause a first event to occur, such as displaying information on the display to describe a function of the button", Pg. 1, par. 5).

As in Claim 5, Allport teaches the display to be visual ("quickly see what each button 15 is used for if the user so desires", Pg. 4, par.30).

As in Claim 8, Allport teaches sensing an input that produces activation of the pushbutton (execution activation motion).

As in Claim 9, Allport teaches the preview sensing means to be along an axis different than the activation sensing means ("moving down half-way then down all the way", Pg. 4, par. 32).

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As in Claim 10, Allport teaches the preview sensing means to be along an axis different than the activation sensing means ("a first activation requirement could be sliding the button 15 forward towards the display area 25, while the second activation requirement could be pressing down on the button", Pg. 4, par. 32).

As in Claim 11, Allport teaches the preview sensing means to be along an axis orthogonal to the axis along which the activation sensing means senses motion (See Claim 10 rejection, Pg. 4, par. 32).

As in Claim 12, Allport teaches the interface to enable a user to preview the effect of activating any of several pushbuttons by identifying which one an input has been provided for that does not produce an activation and displaying a preview in response to the sensed input of the identified pushbutton (plurality of buttons, and "the function of each button or button set is displayed when said button or button set is activated using a display activation motion ... ", Pg. 2, par. 19).

As in Claim 13, Allport teaches a mechanical input apparatus (Pg. 1, par. 3) for enabling a user to preview the effect of activating a mechanical input apparatus comprising a means for sensing input to the mechanical input apparatus that does not activate the apparatus and in response to sensing input, displaying a preview indicating the effect of activating the mechanical input apparatus (See Claim 1 rejection *supra*).

As in Claim 14, Allport teaches the mechanical input apparatus to be a doorknob ("various types of buttons, such as ... knobs", Pg. 1, par. 3).

As in Claim 15, Allport teaches the mechanical input apparatus to be a switching apparatus ("various types of buttons, such as ... switches", Pg. 1, par. 3).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Allport, US Patent Application 2002/0135619, and further in view of Braun et al., US Patent 6343349.

Allport illustrates a method for button activation prediction and visual preview of button activation by sensing user input. While Allport teaches such a system with button sensing and preview activation interface, they fail to show the use of a force sensitive resistor to sense user input as recited in Claim 2. In the same field of the invention, Braun et al. teaches an activation interface similar to that of Allport.

In addition, Braun et al. further teaches the use of a force sensitive resistor as a sensor for motion activation (Column 9, lines 56-61). It would have been obvious to one of ordinary skill in the art, having the teachings of Allport and Braun et al. before him at the time the invention was made, to modify the button sensing and preview activation interface taught by Allport to include the force sensitive resistor of Braun et al., in order to obtain a force sensing method for user input. One would have been motivated to make such a combination because a force responsive apparatus for activating a button's activation preview would have been obtained, as taught by Braun et al.

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5. Claims 3-4 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allport, US Patent Application 2002/0135619, and further in view of Chang et al., US Patent 6424356.

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Allport illustrates a method for button activation prediction and visual preview of button activation by sensing user input. While Allport teaches such a system with button sensing and preview activation interface, they fail to show the use of potentiometers and strain gauges as recited in Claims 3 and 4 and the use of audio and haptic displays as in Claims 6 and 7. In the same field of the invention, Chang et al. teaches an activation interface similar to that of Allport.

In addition as in Claims 3 and 4, Chang et al. further teaches the use of potentiometers or strain gauges as sensors for motion activation (Column 5, lines 29-40). It would have been obvious to one of ordinary skill in the art, having the teachings of Allport and Chang et al. before him at the time the invention was made, to modify the button sensing and preview activation interface taught by Allport to include the potentiometer or strain gauge of Chang et al., in order to obtain a sensing method for user input. One would have been motivated to make such a combination because a apparatus for sensing and activating a button's activation preview from different levels of strain or resistance would have been obtained, as taught by Chang et al.

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Conclusion

The prior art made of record on form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. § 1.111(c) to consider these references fully when responding to this action. The documents cited therein teach similar input sensing apparatus and activation responsive inputs and methods.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sara M Hanne whose telephone number is (703) 305-0703. The examiner can normally be reached on M-F 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (703) 308-3116. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-5484.

smh

JOHN CABECA

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